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<u>L15</u>	radar\$1	72	<u>L15</u>

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=OR*

<u>L14</u>	l13 and l12	49	<u>L14</u>
<u>L13</u>	l3 or l10	1782	<u>L13</u>
<u>L12</u>	(linear adj frequency adj modulat\$4) or lfm	1410	<u>L12</u>

*DB=USOC; PLUR=YES; OP=OR*

<u>L11</u>	l10 and chirp\$4	0	<u>L11</u>
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<u>L9</u>	(synthetic adj aperture\$1) or sar	18770	<u>L9</u>
<u>L8</u>	radar\$1	10694	<u>L8</u>

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<u>L3</u>	l1 and l2	1629	<u>L3</u>
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**1 Antenna synthetic beam imaging using chirp algorithm**

*Allam, A.M.M.A.; Amein, A.S.; Elghany, F.I.A.;*

Radio Science Conference, 2000. 17th NRSC '2000. Seventeenth National , 22-24 Feb. 2000

Pages:B12/1 - B1210

[\[Abstract\]](#)   [\[PDF Full-Text \(476 KB\)\]](#)   **IEEE CNF**

**2 High range resolution by means of synthetic bandwidth generated by frequency-stepped chirps**

*Schimpf, H.; Wahlen, A.; Essen, H.;*

Electronics Letters , Volume: 39 , Issue: 18 , 4 Sept. 2003

Pages:1346 - 1348

[\[Abstract\]](#)   [\[PDF Full-Text \(211 KB\)\]](#)   **IEEE JNL**

**3 An accelerated chirp scaling algorithm for synthetic aperture imaging**

*Hawkins, D.W.; Gough, P.T.;*

Geoscience and Remote Sensing, 1997. IGARSS '97. 'Remote Sensing - A Scientific Vision for Sustainable Development', 1997 IEEE International , Volume: 1 , 3-8 Aug. 1997

Pages:471 - 473 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(424 KB\)\]](#)   **IEEE CNF**

**4 A new method for the compensation of the SAR range cell migration based on the chirp z-transform**

*Lanari, R.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 33 , Issue: 5 , Sep 1995

Pages:1296 - 1299

[\[Abstract\]](#)   [\[PDF Full-Text \(460 KB\)\]](#)   **IEEE JNL**

**5 Application of the fractional Fourier transform to moving target detection in airborne SAR**

*Hong-Bo Sun; Guo-Sui Liu; Hong Gu; Wei-Min Su;*

Aerospace and Electronic Systems, IEEE Transactions on , Volume: 38 , Issue: 4 , Oct. 2002

Pages:1416 - 1424

[[Abstract](#)] [[PDF Full-Text \(582 KB\)](#)] IEEE JNL

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**6 Discrete chirp-Fourier transform and its application to chirp rate estimation**

*Xiang-Gen Xia;*

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] , Volume: 48 , Issue: 11 , Nov. 2000

Pages:3122 - 3133

[[Abstract](#)] [[PDF Full-Text \(3732 KB\)](#)] IEEE JNL

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**7 Time-varying step-transform algorithm for high squint SAR imaging**

*Xiaobing Sun; Tat Soon Yeo; Chengbo Zhang; Yihui Lu; Pang Shyan Kooi;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 37 , Issue: 6 , Nov. 1999

Pages:2668 - 2677

[[Abstract](#)] [[PDF Full-Text \(244 KB\)](#)] IEEE JNL

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**8 A short discussion on the exact compensation of the SAR range-dependent range cell migration effect**

*Lanari, R.; Fornaro, G.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 35 , Issue: 6 , Nov. 1997

Pages:1446 - 1452

[[Abstract](#)] [[PDF Full-Text \(176 KB\)](#)] IEEE JNL

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**9 Patch diameter limitation due to high chirp rates in focused SAR images**

*Doerry, A.W.;*

Aerospace and Electronic Systems, IEEE Transactions on , Volume: 30 , Issue: 4 , Oct. 1994

Pages:1125 - 1129

[[Abstract](#)] [[PDF Full-Text \(356 KB\)](#)] IEEE JNL

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**10 Precision SAR processing using chirp scaling**

*Raney, R.K.; Runge, H.; Bamler, R.; Cumming, I.G.; Wong, F.H.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 32 , Issue: 4 , July 1994

Pages:786 - 799

[[Abstract](#)] [[PDF Full-Text \(1132 KB\)](#)] IEEE JNL

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**11 On the modifier chirp z transform for synthetic aperture radar systems**

*Adams, J.W.; Bayma, R.W.; Lawrence, M.E.; Petrosian, L.;*

Signal Processing, IEEE Transactions on [see also Acoustics, Speech, and Signal Processing, IEEE Transactions on] , Volume: 39 , Issue: 4 , April 1991

Pages:953 - 955

[\[Abstract\]](#) [\[PDF Full-Text \(304 KB\)\]](#) IEEE JNL

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**12 Extension of the chirp scaling algorithm to 3-D near-field wideband radar imaging**

*Gimeno-Nieves, E.; Lopez-Sanchez, J.M.; Pascual-Villalobos, C.;*

Radar, Sonar and Navigation, IEE Proceedings - , Volume: 150 , Issue: 3 , 2 June 2003

Pages:152 - 157

[\[Abstract\]](#) [\[PDF Full-Text \(572 KB\)\]](#) IEE JNL

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**13 An adaptive filtering approach to chirp estimation and ISAR imaging of maneuvering targets**

*Genyuan Wang; Xiang-Gen Xia;*

Radar Conference, 2000. The Record of the IEEE 2000 International , 7-12 May 2000

Pages:481 - 486

[\[Abstract\]](#) [\[PDF Full-Text \(368 KB\)\]](#) IEEE CNF

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**14 Hybrid optical-RF system for generating an improved linear frequency modulated pulses for radar applications**

*Appelman, R.; Zalevsky, Z.; Mendlovic, D.; Shabtay, G.;*

Radar Conference, 2000. The Record of the IEEE 2000 International , 7-12 May 2000

Pages:775 - 780

[\[Abstract\]](#) [\[PDF Full-Text \(296 KB\)\]](#) IEEE CNF

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**15 An airborne squint SAR processing algorithm**

*Huang Yan; Li Chunsheng; Li Jingwen; Zhou Yinqing;*

Radar, 1996. Proceedings., CIE International Conference of , 8-10 Oct. 1996

Pages:334 - 337

[\[Abstract\]](#) [\[PDF Full-Text \(224 KB\)\]](#) IEEE CNF

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#### 1 Chirp scaling algorithms for SAR processing

*Jin, M.Y.; Cheng, F.; Ming Chen;*

Geoscience and Remote Sensing Symposium, 1993. IGARSS '93. 'Better Understanding of Earth Environment', International , 18-21 Aug. 1993  
Pages:1169 - 1172 vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(208 KB\)\]](#)   IEEE CNF

#### 2 A high precision workstation-based chirp scaling SAR processor

*Breit, H.; Schattler, B.; Steinbrecher, U.;*

Geoscience and Remote Sensing, 1997. IGARSS '97. 'Remote Sensing - A Scientific Vision for Sustainable Development', 1997 IEEE International , Volume: 1 , 3-8 Aug. 1997  
Pages:465 - 467 vol.1

[\[Abstract\]](#)   [\[PDF Full-Text \(360 KB\)\]](#)   IEEE CNF

#### 3 Doppler parameter estimation algorithms for SAR processing with the chirp scaling approach

*Moreira, A.; Scheiber, R.;*

Geoscience and Remote Sensing Symposium, 1994. IGARSS '94. 'Surface and Atmospheric Remote Sensing: Technologies, Data Analysis and Interpretation', International , Volume: 4 , 8-12 Aug. 1994  
Pages:1977 - 1979 vol.4

[\[Abstract\]](#)   [\[PDF Full-Text \(292 KB\)\]](#)   IEEE CNF

#### 4 High range resolution radar using narrowband linear chirps offset in frequency

*Lord, R.T.; Inggs, M.R.;*

Communications and Signal Processing, 1997. COMSIG '97., Proceedings of the 1997 South African Symposium on , 9-10 Sept. 1997  
Pages:9 - 12



[\[Abstract\]](#) [\[PDF Full-Text \(336 KB\)\]](#) IEEE CNF

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**5 New applications of nonlinear chirp scaling in SAR data processing**

*Wong, F.W.; Yeo, T.S.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 39 , Issue: 5 , May 2001

Pages:946 - 953

[\[Abstract\]](#) [\[PDF Full-Text \(180 KB\)\]](#) IEEE JNL

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**6 A short discussion on the exact compensation of the SAR range-dependent range cell migration effect**

*Lanari, R.; Fornaro, G.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 35 , Issue: 6 , Nov. 1997

Pages:1446 - 1452

[\[Abstract\]](#) [\[PDF Full-Text \(176 KB\)\]](#) IEEE JNL

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**7 Effect of pulse phase errors on the chirp scaling SAR processing algorithm**

*Davidson, G.W.; Wong, F.H.; Cumming, I.G.;*

Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International , Volume: 3 , 10-14 July 1995

Pages:2298 - 2301 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(376 KB\)\]](#) IEEE CNF

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**8 An approach for improved processing in squint mode SAR**

*Davidson, G.W.; Cumming, I.G.; Ito, M.R.;*

Geoscience and Remote Sensing Symposium, 1993. IGARSS '93. 'Better Understanding of Earth Environment', International , 18-21 Aug. 1993

Pages:1173 - 1175 vol.3

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**9 Application of the fractional Fourier transform to moving target detection in airborne SAR**

*Hong-Bo Sun; Guo-Sui Liu; Hong Gu; Wei-Min Su;*

Aerospace and Electronic Systems, IEEE Transactions on , Volume: 38 , Issue: 4 , Oct. 2002

Pages:1416 - 1424

[\[Abstract\]](#) [\[PDF Full-Text \(582 KB\)\]](#) IEEE JNL

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**10 Extended chirp scaling algorithm for air- and spaceborne SAR data processing in stripmap and ScanSAR imaging modes**

*Moreira, A.; Mittermayer, J.; Scheiber, R.;*

Geoscience and Remote Sensing, IEEE Transactions on , Volume: 34 , Issue: 5 , Sept. 1996

Pages:1123 - 1136

[\[Abstract\]](#) [\[PDF Full-Text \(2396 KB\)\]](#) IEEE JNL

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**11 The effect of pulse phase errors on the chirp scaling SAR processing algorithm**

*Davidson, G.W.; Wong, F.; Cumming, I.;*  
Geoscience and Remote Sensing, IEEE Transactions on , Volume: 34 , Issue:  
2 , March 1996  
Pages:471 - 478

[\[Abstract\]](#) [\[PDF Full-Text \(840 KB\)\]](#) IEEE JNL

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**12 A chirp scaling approach for processing squint mode SAR data**

*Davidson, G.W.; Cumming, I.G.; Ito, M.R.;*  
Aerospace and Electronic Systems, IEEE Transactions on , Volume: 32 , Issue:  
1 , Jan. 1996  
Pages:121 - 133

[\[Abstract\]](#) [\[PDF Full-Text \(1320 KB\)\]](#) IEEE JNL

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**13 Patch diameter limitation due to high chirp rates in focused SAR images**

*Doerry, A.W.;*  
Aerospace and Electronic Systems, IEEE Transactions on , Volume: 30 , Issue:  
4 , Oct. 1994  
Pages:1125 - 1129

[\[Abstract\]](#) [\[PDF Full-Text \(356 KB\)\]](#) IEEE JNL

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**14 A chirp signal parameter estimation algorithm and its application to SAR imaging of moving targets**

*Liping Zhang; Yingning Peng; Jia Xu;*  
Radar Conference, 2003. Proceedings of the 2003 IEEE , 5-8 May 2003  
Pages:228 - 231

[\[Abstract\]](#) [\[PDF Full-Text \(306 KB\)\]](#) IEEE CNF

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**15 Analysis of range ambiguity suppression in SAR by up and down chirp modulation for point and distributed targets**

*Mittermayer, J.; Martinez, J.M.;*  
Geoscience and Remote Sensing Symposium, 2003. IGARSS '03. Proceedings.  
2003 IEEE International , Volume: 6 , 21-25 July 2003  
Pages:4077 - 4079 vol.6

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### 1 FOPEN SAR imaging using UWB step-frequency and random noise waveforms

*Xiaojian Xu; Narayanan, R.M.;*  
 Aerospace and Electronic Systems, IEEE Transactions on , Volume: 37 , Issue: 4 , Oct. 2001  
 Pages:1287 - 1300

[\[Abstract\]](#)   [\[PDF Full-Text \(1209 KB\)\]](#)   IEEE JNL

### 2 Imaging performance analysis of a FOPEN UWB random noise radar

*Xiaojian Xu; Narayanan, R.M.;*  
 Antennas and Propagation Society International Symposium, 2001. IEEE , Volume: 4 , 8-13 July 2001  
 Pages:273 - 276 vol.4

[\[Abstract\]](#)   [\[PDF Full-Text \(160 KB\)\]](#)   IEEE CNF

### 3 ISAR echoes coherent processing and imaging

*Xing Mengdao; Lan Jinqiao; Bao Zheng; Liao Guisheng;*  
 Aerospace Conference, 2004. Proceedings. 2004 IEEE , Volume: 3 , 6-13 March 2004  
 Pages: 1960 Vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(916 KB\)\]](#)   IEEE CNF

### 4 Processing simulated RADARSAT SAR data with squint by a high precision algorithm

*Wong, F.; Cumming, I.; Raney, R.K.;*  
 Geoscience and Remote Sensing Symposium, 1993. IGARSS '93. 'Better Understanding of Earth Environment', International , 18-21 Aug. 1993  
 Pages:1176 - 1178 vol.3

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**1 Time-varying step-transform algorithm for high squint SAR imaging**

*Xiaobing Sun; Tat Soon Yeo; Chengbo Zhang; Yihui Lu; Pang Shyan Kooi;*  
 Geoscience and Remote Sensing, IEEE Transactions on, Volume: 37, Issue: 6, Nov. 1999  
 Pages:2668 - 2677

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**2 A two-step spotlight SAR data focusing approach**

*Fornaro, G.; Lanari, R.; Sansosti, E.; Tesauro, M.;*  
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 Pages:84 - 86 vol.1

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**3 An improved step transform algorithm for high squint angle SAR imaging**

*Xiaobing Sun; Tat Soon Yeo; Chengbo Zhang; Yihui Lu;*  
 Geoscience and Remote Sensing Symposium Proceedings, 1998. IGARSS '98. 1998 IEEE International, Volume: 2, 6-10 July 1998  
 Pages:1156 - 1158 vol.2

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**4 SAR data processing at high squint**

*Tan, N.L.; Yeo, T.S.; Lu, Y.H.; Zhang, C.B.;*  
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**5 A precision chirp scaling SAR processor extension to sub-aperture implementation on massively parallel supercomputers**



*Impagnatiello, F.;*  
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**6 Spotlight SAR data focusing based on a two-step processing approach**

*Lanari, R.; Tesauro, M.; Sansosti, E.; Fornaro, G.;*  
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**7 Spaceborne imaging radar-C instrument**

*Huneycutt, B.L.;*  
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**8 New approach for hybrid strip-map/spotlight SAR data focusing**

*Lanari, R.; Zoffoli, S.; Sansosti, E.; Fornaro, G.; Serafino, F.;*  
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Pages:363 - 372

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**9 Improving the focusing properties of SAR processors for wide-band and wide-beam low frequency imaging**

*Potsis, A.; Reigber, A.; Mittermayer, J.; Moreira, A.; Uzunoglou, N.;*  
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**10 A new two-dimensional squint mode SAR processor**

*Lampropoulos, G.A.;*  
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**11 A chirp scaling approach for processing squint mode SAR data**

*Davidson, G.W.; Cumming, I.G.; Ito, M.R.;*  
Aerospace and Electronic Systems, IEEE Transactions on , Volume: 32 , Issue: 1 , Jan. 1996  
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**12 Chirp z-transform based SPECAN approach for phase-preserving ScanSAR image generation**

*Lanari, R.; Hensley, S.; Rosen, P.A.;*

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**13 Target number detection based on a order Choi-Willams distribution**

*Liping Du; Guangchuan Su;*

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**14 ENVISAT-1 advanced synthetic aperture radar system calibration**

*Desnos, Y.-L.; Suchail, J.-L.; Karnevi, S.; Hurd, D.;*

Geoscience and Remote Sensing Symposium, 1995. IGARSS '95. 'Quantitative Remote Sensing for Science and Applications', International , Volume: 1 , 10-14 July 1995

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**15 Processing simulated RADARSAT SAR data with squint by a high precision algorithm**

*Wong, F.; Cumming, I.; Raney, R.K.;*

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